§ 18.307

Frequency (MHz)	Field strength limit at 30 meters (µV/m)
216–1000	20

Notes

- 1. The tighter limit shall apply at the boundary between two frequency ranges.
- 2. Testing for compliance with these limits may be made at closer distances, provided a sufficient number of measurements are taken to plot the radiation pattern, to determine the major lobes of radiation, and to determine the expected field strength level at 30, 300, or 1600 meters. Alternatively, if measurements are made at only one closer fixed distance, then the permissible field strength limits shall be adjusted using 1/d as an attenuation factor.

[50 FR 36070, Sept. 5, 1985, as amended at 51 FR 17970, May 16, 1986; 52 FR 43197, Nov. 10, 1987]

§18.307 Conduction limits.

For the following equipment, which is designed to be connected to a low voltage public utility power line, the RF voltage conducted back into the power lines measured with a line impedance stabilization network (LISN) shall be limited to:

(a) Ultrasonic equipment:

Frequency (MHz)	Maximum RF line voltage measured with a 5 μH/50 ohm LISN (μV)
0.010–0.49	1000
0.49–30	200

(b) Induction cooking ranges manufactured after February 1, 1980:

Frequency (MHz)	Maximum RF line voltage measured with a 5μH/50 ohm LISN (mV)
0.010–0.1	10–1 (linear interpolation)
0.1–0.5	1
0.5–30	0.25

(c) RF lighting devices:

Maximum RF line voltage measured with a 50μH/50 ohm LISN (μV)
1000
3000
250

Notes

- 1. These conduction limits shall apply outside the bands specified in $\S\,18.301.$
- 2. For ultrasonic equipment, compliance with these conduction limits shall preclude the need to show compliance with the field strength limits below 30 MHz unless requested by the Commission.
- 3. The tighter limits shall apply at the boundary between two frequency ranges.

 $[50\ FR\ 36067,\ Sept.\ 5,\ 1985,\ as\ amended\ at\ 52\ FR\ 43198,\ Nov.\ 10,\ 1987]$

§18.309 Frequency range of measurements.

(a) For field strength measurements:

Frequency band in which device	Range of frequency measurements		
operates (MHz)	Lowest frequency	Highest frequency	
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz.	30 MHz.	
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz.	400 MHz.	
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower.	Tenth harmonic or 1,000 MHz, whichever is higher.	
500 to 1,000	Lowest frequency generated in the device or 100 MHz, which- ever is lower.	Tenth harmonic.	
Above 1,000	do	Tenth harmonic or high- est detectable emis- sion.	

(b) For conducted powerline measurements, the frequency range over which the limits are specified will be scanned.

[50 FR 36070, Sept. 5, 1985, as amended at 51 FR 17971, May 16 1986]

§18.311 Methods of measurements.

The measurement techniques which will be used by the FCC to determine compliance with the technical requirements of this part are set out in FCC